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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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09/788,252

02/16/2001

Shigefumi Odaohhara

JA9 1999 0748

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7590

04/01/2003

IBM CORPORATION
PO BOX 12195
DEPT 9CCA, BLDG 002
RESEARCH TRIANGLE PARK, NC 27709

EXAMINER

DEB, ANJAN K

ART UNIT

PAPER NUMBER

2858

DATE MAILED: 04/01/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/788,252

Applicant(s)

ODAOHHARA ET AL.

Examiner

Anjan K Deb

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 16 February 2001.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-9 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-9 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 16 February 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on _____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
- 1) ☒ Certified copies of the priority documents have been received.
 - 2) ☐ Certified copies of the priority documents have been received in Application No. _____.
 - 3) ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) 2.
- 4) ☐ Interview Summary (PTO-413) Paper No(s). _____
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other:

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1,4 are rejected under 35 U.S.C. 102(b) as being anticipated by Ishida (US 5,434,508).

Re claims 1,4 Ishida discloses method and apparatus for displaying information concerning power consumption of an electronic device (notebook computer: Fig. 2) on a display, wherein the electronic device has display 14 is driven by a battery pack 31 (Fig. 1) comprising the steps of obtaining and displaying power consumption value from battery pack (column 1 lines 60-66).

3. Claims 1,4 are rejected under 35 U.S.C. 102(b) as being anticipated by Anderson (US 6,078,871 A).

Re claims 1,4 Anderson discloses method and apparatus for displaying information concerning power consumption of an electronic device (notebook computer: Fig. 1) on a display, wherein the electronic device has display screen 115 is driven by a battery pack 101

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(Fig. 1) comprising the steps of obtaining and displaying information concerning power consumption value from battery pack (column 2 lines 50-52, column 4 lines 45-55).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 1-9 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lane et al. (US 6,502,044 B1) in view of Anderson (US 6,078,871 A).

Re claims 1-2,4-5 Lane et al. discloses a method and apparatus of determining power consumption of an electronic device (12) from a battery (22) for automatic testing an emergency lighting system driven by AC adapter (14) or a battery pack (22) comprising stopping of electrical power (AC supply 12) (see column 8 lines 42-46: microprocessor signal 102 is used to drive a transistor 104 to shunt the AC power source to allow software to perform diagnostic tests)(column 9 lines 55-57, FIG. 2, *transistor 104 is utilized to simulate power outages through turning said transistor on*).

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Re claims 1-2, 4-5 Lane et al. did not expressly disclose an electronic device having a display.

Anderson discloses a method for displaying information concerning power consumption of an electronic device (notebook computer: Fig. 1) on a display.

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Lane et al. by adding means display means disclosed by Anderson for visual indication of power consumption.

Re claims 3, Lane et al. discloses microprocessor 18 for processing information (voltage, current) concerning power consumption prior to displaying.

Re claims 5-6, Lane et al. discloses microcontroller (microprocessor 18) for receiving information (voltage, current) concerning power consumption from battery and outputting (28,30,32) said information (Fig. 1).

Re claims 7-8, Lane et al. discloses controllable switch (*transistor 104*) for shutting off power supply (14) to electronic device (12) for a predetermined time), a microcontroller (microprocessor 18) for sending a control signal, and for receiving information (voltage, current) concerning power consumption from battery and outputting (28,30,32) said information (Fig. 1).

Lane et al. did not expressly disclose an electronic device having a display.

Anderson discloses a method for displaying information concerning power consumption of an electronic device (notebook computer: Fig. 1) on a display.

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At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Lane et al. by adding means display means disclosed by Anderson for visual indication of power consumption.

Re claim 9, Lane et al. discloses (Fig. 2) an electronic device (50) driven by an AC adaptor P1 and a battery pack (46,48) comprising a first input terminal connectable to AC adaptor P1, a load terminal connectable to electric power load of electronic device (50), a second input terminal connectable to electric power terminal of battery, a communication terminal V_BAT connectable to battery signal terminal, a line (96) for connecting second input terminal to load terminal (50), a communication controller (MICROPROCESSOR) connected to communication terminal to receive information concerning power consumption value (I_LOAD, V_BAT) from battery pack (46,48), a control terminal (102) connected to a control terminal of a switch (104) for tuning off power supply to let battery pack (46,48) supply power to device (50).

Re claim 9, Lane et al. did not expressly disclose an electronic device having a display.

Anderson discloses a method for displaying information concerning power consumption of an electronic device (notebook computer: Fig. 1) on a display.

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Lane et al. by adding means display means disclosed by Anderson for visual indication of power consumption.

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Re claim 9, Lane et al. did not expressly disclose an electronic device having a display.

Anderson discloses a method for displaying information concerning power consumption of an electronic device (notebook computer: Fig. 1) on a display.

At the time of the invention it would have been obvious for one of ordinary skill in the art to modify Lane et al. by adding means display means disclosed by Anderson for visual indication of power consumption.

Pertinent Art

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Reich et al. (US 5,281,955) discloses an apparatus and method of monitoring a battery pack for uninterrupted power supply comprising AC power, and means for monitoring continuously or during AC power supply interruption the values of battery voltage, current and power and displaying LCD (column 14 lines 60-66) the monitored information.

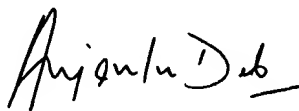
Hull et al. (US 5,606,242) discloses smart battery algorithm, method, and apparatus for reporting battery parameters to an external device comprising periodically measuring power consumption from battery and displaying power consumption for testing battery condition comprising battery pack 10, power system 18 and, and electronic device 16 (Fig. 1).

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Contact Information

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Dr. Anjan K. Deb whose telephone number is (703) 308-2941. If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, N. Le, can be reached at (703)-308-0750.

Any inquiry of a general nature or relating to the status of this application should be directed to the Group receptionist whose telephone numbers are (703)-308-0956 and (703)-305-4900.



Anjan K. Deb

Patent Examiner

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3/21/03

Tel: 703-308-2941

Fax : 703-746-4466

E-mail : anjan.deb@uspto.gov